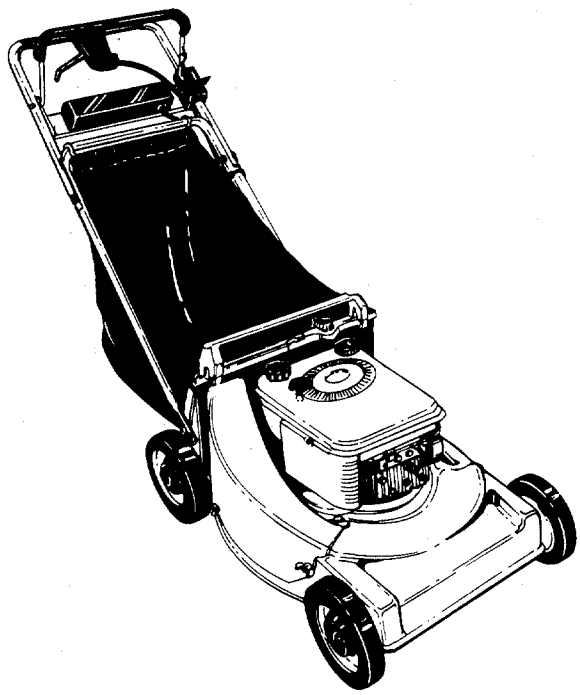
$1.00

OWNER'S GUIDE

ASSEMBLY • OPERATION • MAINTENANCE • PARTS



21″ ELECTRIC START CONVERTIBLE ROTARY MOWER

Model Number 129-176E000

190-077-000

➡ **IMPORTANT:**

The battery pack is shipped in a partially charged state and must be charged 16 hours prior to initial use. Follow charging instructions on page 12.

Important: Read Safety Rules and Instructions Carefully

PRINTED IN U.S.A.

FORM NO. 770-6309D

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INSTRUCTIONS GIVEN WITH THIS SYMBOL ARE FOR PERSONAL SAFETY. BE SURE TO FOLLOW THEM.

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, Peerless components, motor, battery (except as noted below) or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

A battery which proves defective within ninety (90) days will be replaced without charge. After 90 days but within one year from the date of purchase, MTD will replace the defective battery for a charge of 1/12 of the current retail price of the battery for each full 30 day period between the date of purchase and the date of return.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

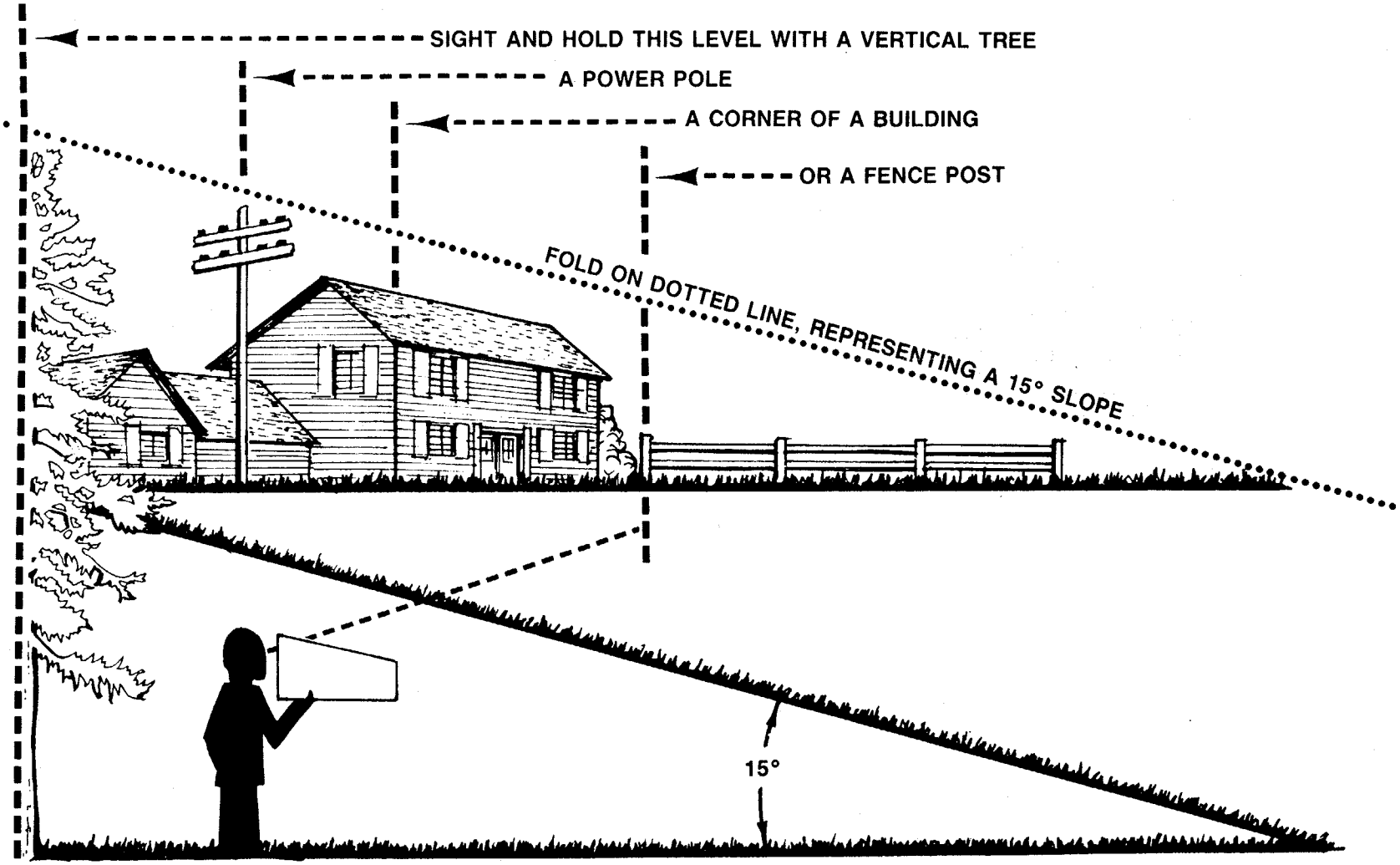
In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer.

Cut Along This Line

SLOPE GAUGE

(Keep this sheet in a safe place for future reference.)

USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.


SIGHT AND HOLD THIS LEVEL WITH A VERTICAL TREE
A POWER POLE
A CORNER OF A BUILDING
OR A FENCE POST
FOLD ON DOTTED LINE, REPRESENTING A 15° SLOPE
15°

WARNING

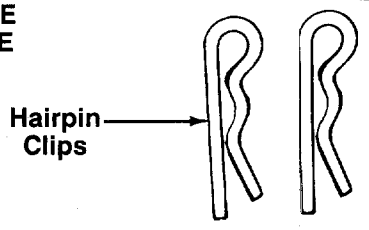
Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2½ feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

Operate RIDING mowers up and down slopes, never across the face of slopes.
Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.

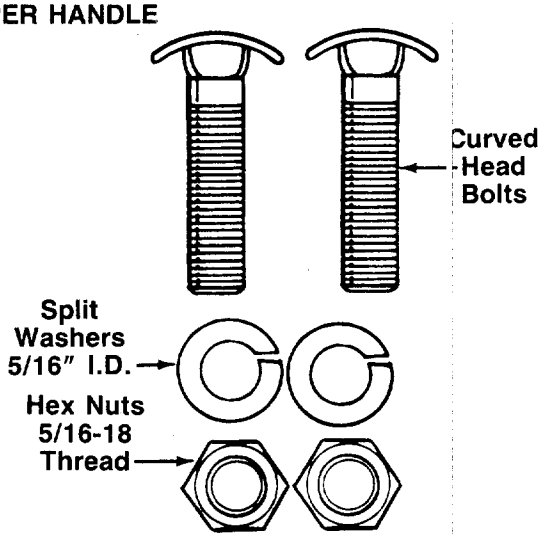
CONTENTS OF HARDWARE PACK

Remove this sheet from your owner's manual and lay the hardware on the illustration for identification purposes. After assembly, keep the Slope Gauge which is on the reverse side of this sheet for future use.
(Hardware pack may contain extra items which are not used on your unit.)

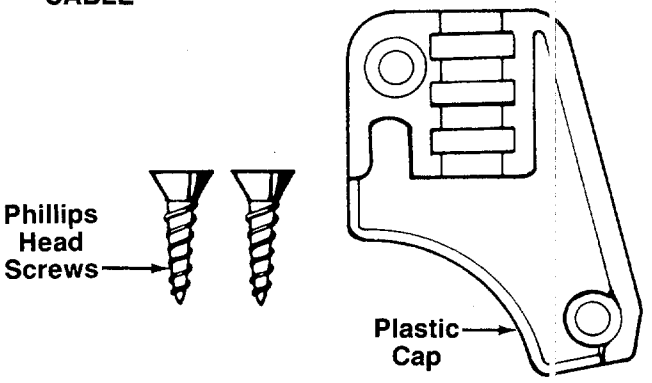
A ATTACHING THE LOWER HANDLE

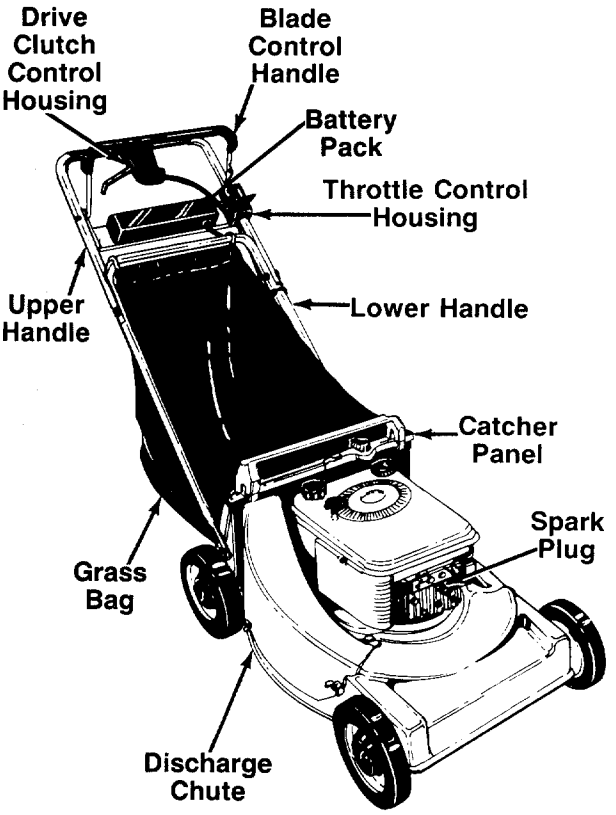


B ATTACHING THE UPPER HANDLE



C ATTACHING THE DRIVE CLUTCH CONTROL CABLE

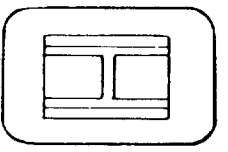


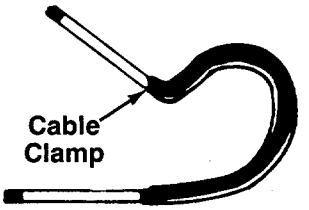


PARTS IDENTIFICATION

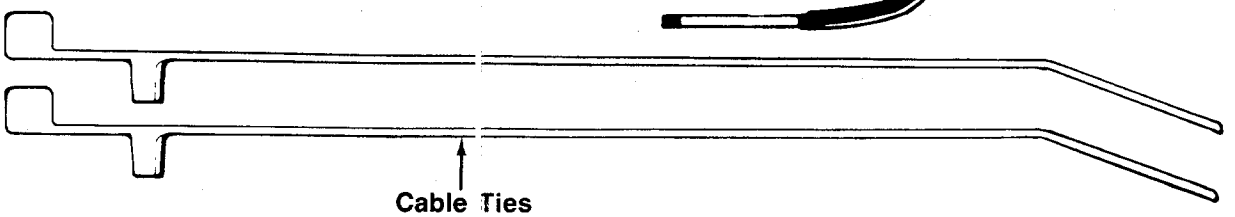
E FINAL ASSEMBLY

Battery Charger is Not Shown





D SECURING THE CABLES



Cut Along This Line

IMPORTANT

RULES FOR SAFE OPERATION

THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL— **HEED ITS WARNING.**

DANGER

Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.

TRAINING

1. Read this owner's guide carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower to help prevent blade contact or thrown object injury. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidently thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
2. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
3. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or until engine has been allowed to cool for two minutes after running. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Mow only in daylight or in good artificial light.
9. For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15º as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Never operate mower without proper guards, plates or other safety protective devices in place.
11. Do not operate this mower unless the complete grass catcher or side chute deflector is properly mounted on the mower.

MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

IMPORTANT: This unit is shipped WITHOUT GASOLINE or OIL. After assembly, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.

NOTE: Reference to right or left hand side of the mower is observed from the operating position. Refer to parts identification on page 4 for location of parts when assembling the mower.

ASSEMBLY INSTRUCTIONS

Tools Required for Assembly

(1) Pair of Pliers
(1) Phillips Head Screwdriver
(1) 1/2" Wrench*
(1) 5/16" Wrench or Nutdriver*
(1) 7/16" Wrench*
*Or one 6" Adjustable Wrench.

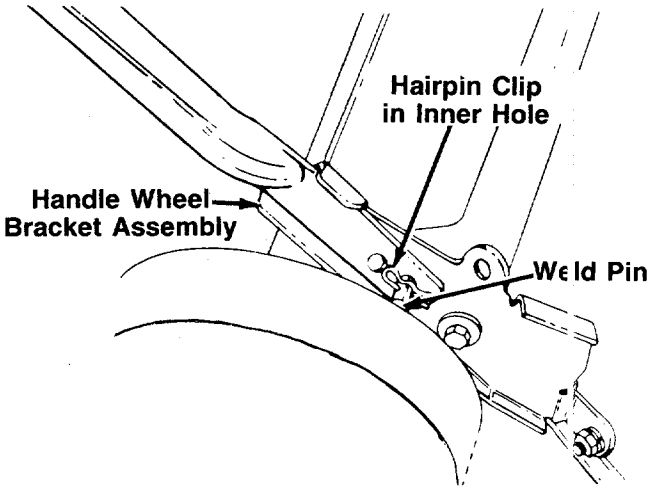


FIGURE 1.

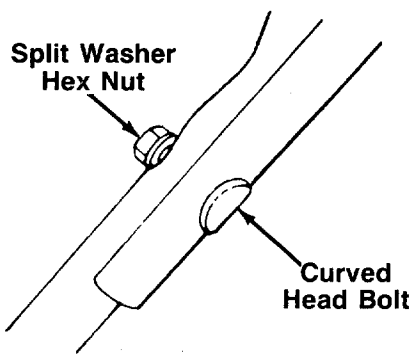


FIGURE 2.

UNPACKING

1. Remove the lawn mower from the carton by opening the top flaps and lifting the unit out. Be careful of the staples. Make certain all parts and literature have been removed from the carton before the carton is discarded.
2. Disconnect and ground the spark plug wire by hooking it into the "V" slot on the engine. Check beneath the deck for any cardboard packaging. Remove if present.
3. Stretch out all control cables and place on the floor. Be careful not to bend or kink the cables at any time during assembly.
4. Remove page four from this manual and lay the contents of the hardware pack on the illustration for identification.

ATTACHING THE LOWER HANDLE (Hardware A)

1. For shipping purposes your mower is set with the wheels in the lowest cutting height position. Raise the mower to the highest setting for assembly of lower handle.
2. Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle wheel bracket assemblies on the rear of the deck. Make certain the instruction label on the lower handle can be read from the operating position.
3. Using a pair of pliers, squeeze on leg of the lower handle against the handle wheel bracket assembly. Insert the hairpin clip into the **inner** hole on the weld pin. See figure 1. Repeat on other side.

ATTACHING THE UPPER HANDLE (Hardware B)

Place the upper handle in position over the lower handle. The label on the throttle control housing and the control lever must be facing up. Secure upper handle using two curved head bolts, split washers and hex nuts as shown in figure 2.

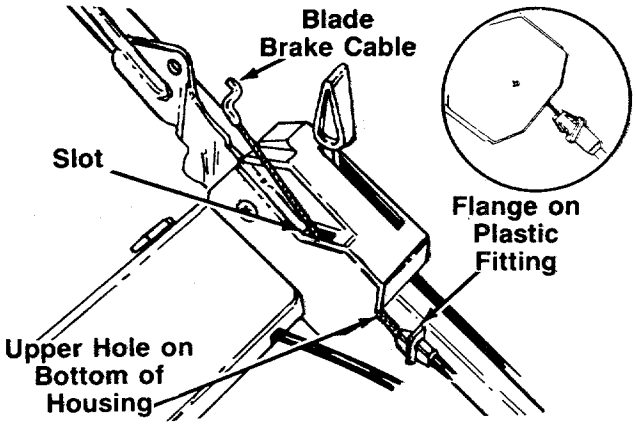


FIGURE 3.

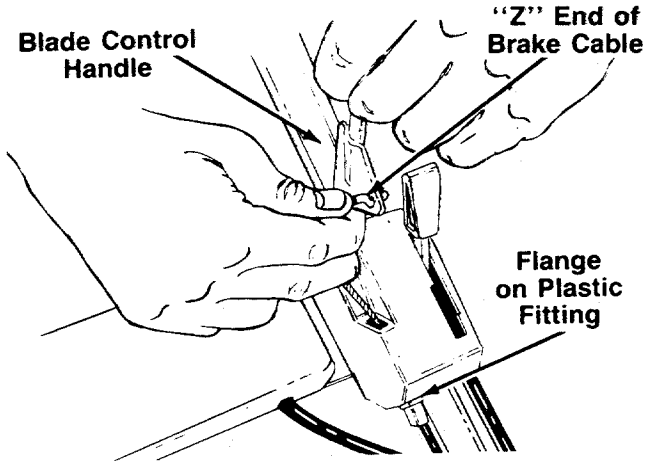


FIGURE 4.

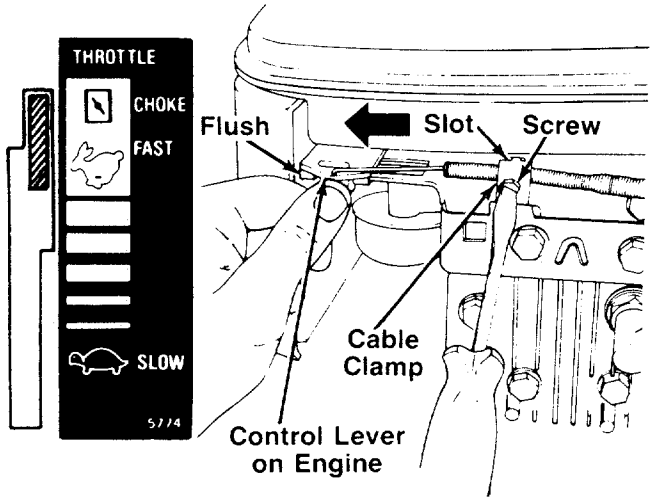


FIGURE 5.

ATTACHING THE BRAKE CABLE

1. The brake cable is attached to the engine, and has a "Z" fitting on the loose end. Route the brake cable to the outside of the height adjustment lever and handle mounting bracket, and below the lower handle. Place end of cable into the upper hole on the bottom of the control housing, and through the slot as shown. The angle of the plastic flange must be positioned downward as shown in figure 3. Be careful not to bend or kink the cable at any time.
2. Push the plastic fitting until it locks into the control housing.

WARNING

Brake cable must be assembled as shown for proper blade brake operation.

3. Hook the "Z" end of the brake cable into the hole in the blade control handle from the inside to the outside as shown in figure 4.

ATTACHING THE THROTTLE CABLE

1. Push the throttle control lever on the handle all the way forward to CHOKE position. See figure 5.
2. The throttle control cable is attached to the upper handle. Route the throttle control cable under the lower handle and to the outside of the handle mounting bracket and height adjustment lever. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine. See figure 5.
3. Using a 5/16" wrench or nutdriver, remove the screw on the cable clamp shown in figure 5. Slip the control cable under the clamp. Replace the screw (cable should be above the screw), but do not tighten screw (cable must still move freely beneath the clamp). Make certain the tab on the cable clamp is seated into the slot on the engine.
4. Push the control lever on the engine as far toward the **outside** of the engine as it will go. The edge of the control lever should be flush with the bracket on the engine. See figure 5. Hold the control lever in this position as you tighten the screw on the cable clamp to secure the throttle cable.
5. Loosen the screw on the clamp on the side of the engine. Slip the cable casing under the clamp to secure the cable **away from the muffler.** Be careful not to bend or kink the cable. Tighten the screw.

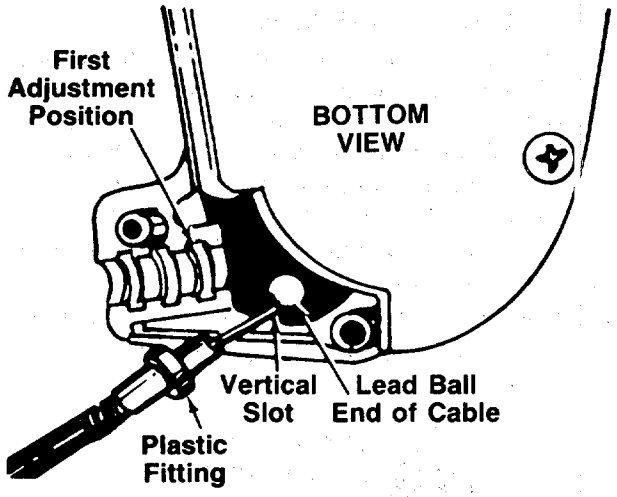


FIGURE 6.

ATTACHING THE DRIVE CLUTCH CONTROL CABLE (Hardware C)

The drive clutch control cable is attached to the deck. Attach the cable to the lever in the clutch control housing, located in the middle of the upper handle, as follows.

1. Place the lead ball end of the cable into the fitting provided in the end of the clutch control lever. Slip the braided wire into the vertical slot as shown in figure 6.

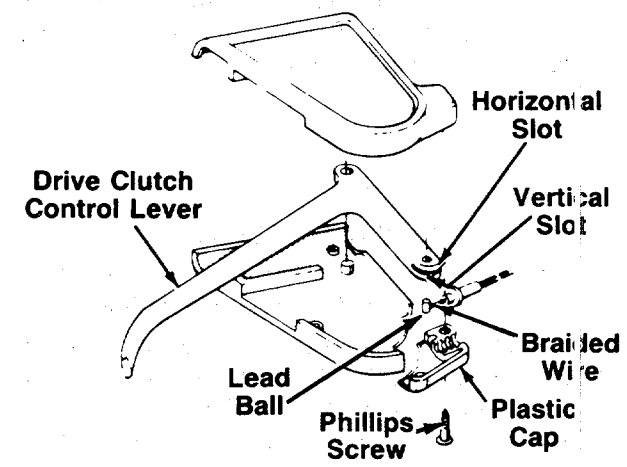


FIGURE 7.

2. Slide the braided wire around in the horizontal slot. See figure 7.
3. Place the plastic fitting on the control cable into the first adjustment position in the clutch control housing. See figure 6.
4. Secure the plastic cap to the clutch control housing using the two Phillips head screws. See figure 7.

WARNING

Drive clutch adjustment must be checked before the unit is operated, as described in the operation section.

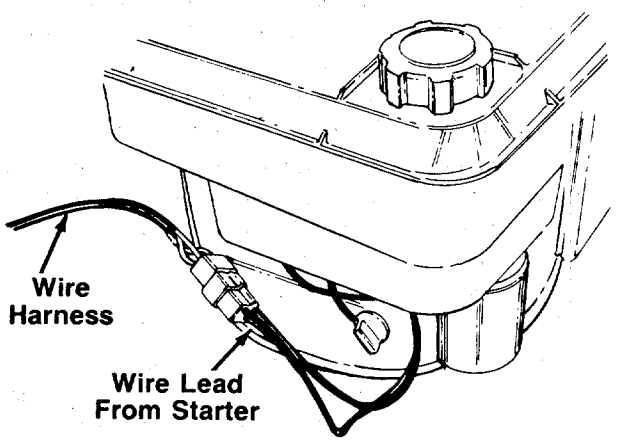


FIGURE 8.

ATTACHING THE WIRE HARNESS

Plug the end of the wire lead coming from the starter on the engine into the plug on the end of the wire harness. See figure 8.

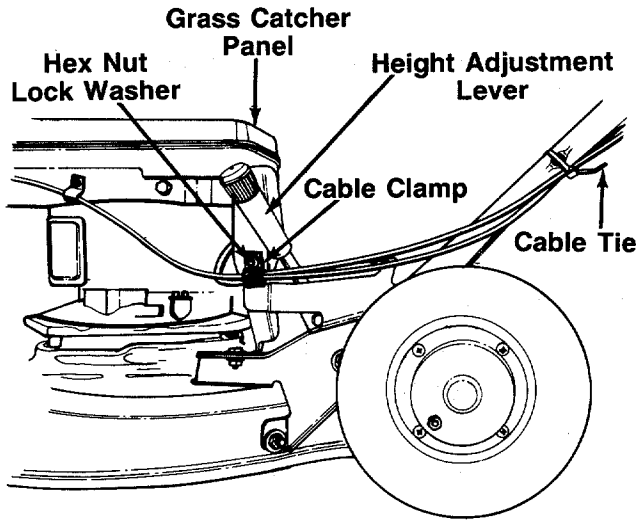


FIGURE 9.

SECURING THE CABLES (Hardware D)

Attach the brake and throttle control cables to the grass catcher panel as follows, using the cable clamp provided.

1. Open the clamp and slip the cables inside.
2. Remove the hex lock nut and flat washer on the side of the grass catcher panel. Attach the cable clamp as shown in figure 9. Secure with flat washer and hex lock nut.
3. Place the height adjustment lever in the lowest position.

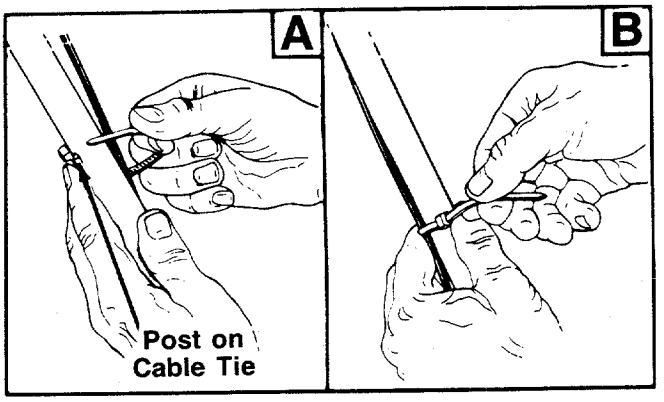


FIGURE 10.

4. Secure all the control cables to the left side of the handle with the cable ties as follows, taking the slack out of the cables so they do not contact the wheel.
   A. Insert posts on cable ties into holes provided on the lower handle, one near the top and one near the bottom of lower handle. The holes may be on either the inside or outside of the handle. See figure 10A.
   B. Secure the cables with the cable ties. See figure 10B.
   C. Trim excess ends of cable ties.

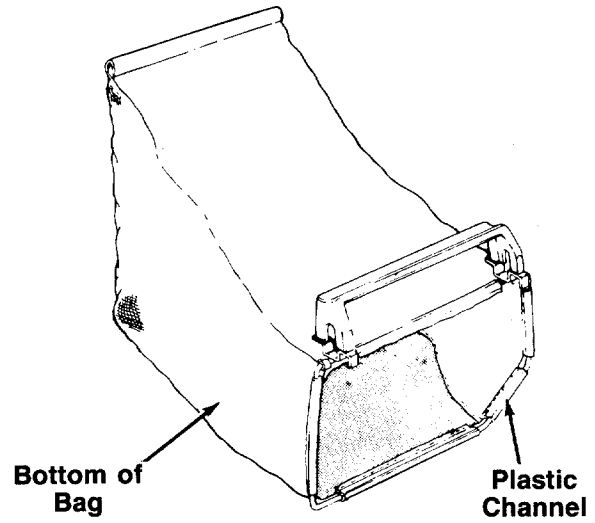


FIGURE 11.

GRASS CATCHER ASSEMBLY

1. Place bag over frame (black plastic side is the bottom of bag). Handle on frame goes to the top of bag. Brackets hook toward the front. See figure 11.
2. Secure bag to frame by slipping plastic channels on bag over frame. See figure 11.

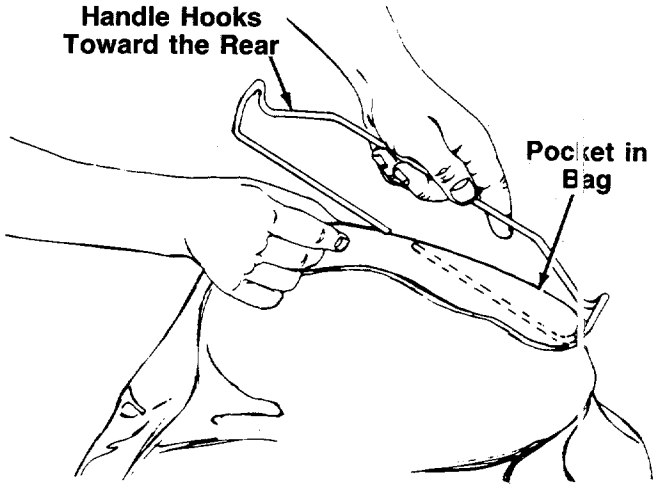


FIGURE 12.

3. Attach the rear handle to bag by inserting one side of handle into pocket on the rear of the bag. The handle should hook toward the rear of the bag as shown in figure 12. Thread all the material onto one side, then slide it over onto the other side. See figure 12.

TO ATTACH BAG TO MOWER

WARNING

DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

1. Hook the handle on the rear of the grass catcher over the lower handle of the mower. See figure 13A.
2. Hold the chute door on the catcher panel open as shown in figure 13B.
3. Slide the frame of the grass catcher down into the channels on the catcher panel. The top portion of the frame goes over the catcher panel.
4. Secure the grass catcher by turning the locking lever to the locked position as shown in figure 13C.

To remove the grass catcher, turn the locking lever to the unlocked position, unhook the rear handle and lift the grass catcher straight up.

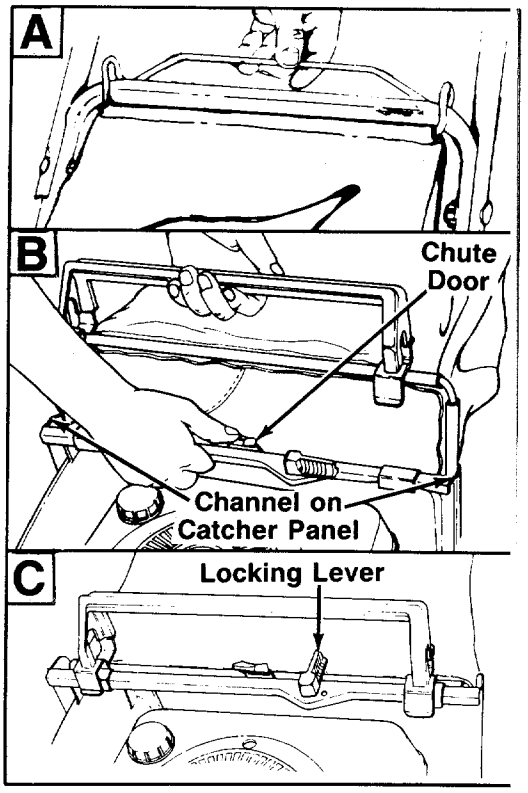


FIGURE 13.

TO CONVERT MOWER TO SIDE DISCHARGE

To convert your mower to a side discharge unit, remove only the grass bag and top discharge chute, and assemble the side chute deflector. It is not necessary to remove the catcher panel. To remove the top discharge chute, proceed as follows. See figures 14 and 15.

1. Remove the two wing nuts on the side of the deck.
2. Lift up on the front edge of the discharge chute, then slide it toward the side, removing it from the bolts in the side of the deck.
3. Attach the side chute deflector by first placing it over the rear bolt in the side of the deck, then over the front bolt and sliding it into position, with shoulder bolt on deck in notch on deflector. Secure with wing nuts.

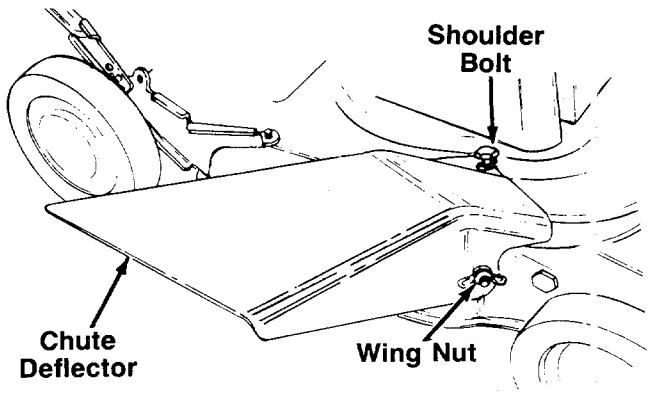


FIGURE 14.

WARNING

Never operate your unit without either the side chute deflector or entire top discharge chute and catcher panel assembly in place.

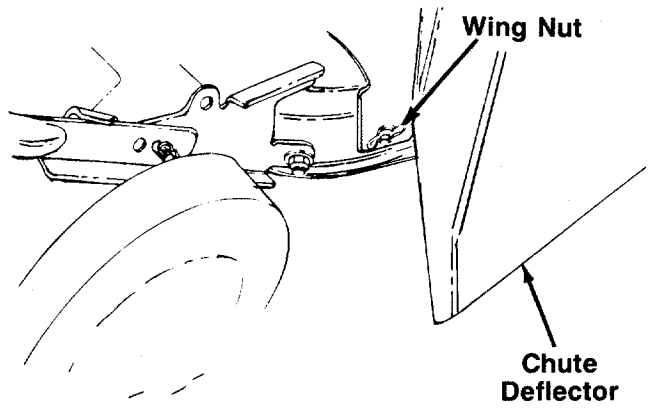


FIGURE 15.

FINAL ASSEMBLY OF MOWER (Hardware E)

1. If plastic plug is not already assembled, insert plastic plug into hole in the top rear of the deck by slipping one end of plug into hole, then pressing down on the other end of plug. Use a soft hammer if necessary.
2. Attach hub caps (optional) to the wheels by lining up the hub caps with the wheels. Push to lock in position.
3. Make certain **all** nuts and bolts are tightened securely.
4. **Be certain to charge the battery** as instructed in "Before Starting" section under Operation. Read instructions carefully.

CONTROLS

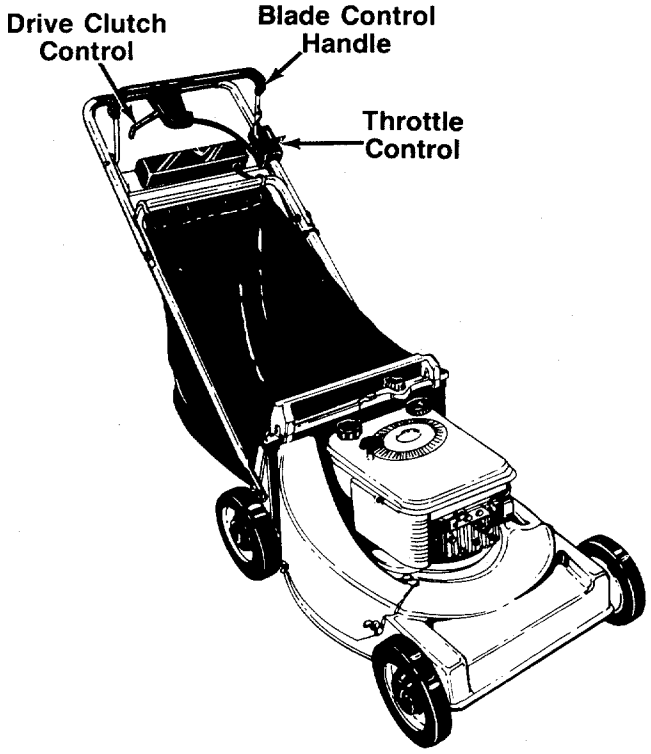


FIGURE 16.

BLADE CONTROL HANDLE

WARNING
THIS CONTROL MECHANISM IS A SAFETY DEVICE NEVER ATTEMPT TO BYPASS ITS OPERATIONS

The blade control handle is located on the upper handle of the mower. See figure 16. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.

WARNING

The blade will be rotating whenever the engine is running.

THROTTLE CONTROL

The throttle control is located on the left side of the upper handle. It is used to regulate the engine speed. The engine should be started with the engine in the CHOKE position.

WARNING

The throttle control cannot be used to stop the engine.

IGNITION SWITCH

The ignition switch is located on the left side of handle panel. It is used for starting only. See figure 16.

DRIVE CLUTCH CONTROL

Squeezing the drive clutch control engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the drive clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figure 16.

OPERATION

TO REDUCE THE RISK OF INJURY, DO NOT OPERATE MOWER UNLESS REAR TRAILING SHIELD AND THIS GUARD OR ENTIRE GRASS CATCHER IS IN ITS PROPER PLACE.
DANGER
KEEP HANDS and FEET AWAY

FIGURE 17.

Keep hands and feet away from the chute area on cutting deck. See figure 17.

NOTE

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment section.

GAS AND OIL FILL-UP

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your mower. **Read instructions carefully.**

WARNING

Never fill fuel tank indoors, with engine running or until the engine has been allowed to cool for at least two minutes after running.

BEFORE STARTING

WARNING

The battery contains corrosive fluid and toxic material. HANDLE WITH CARE. Keep away from children. Do not puncture, disassemble, mutilate or incinerate. Explosive gases could be vented during charging or discharging. Use in a well-ventilated area, away from sources of ignition.

1. **Charge battery for 16 hours before initial use.** DO NOT CHARGE LONGER THAN 20 HOURS.

CAUTION

Use only the battery charger supplied with this mower.

To charge the battery, first remove the protective cap from the end of the battery pack lead. Always plug charger lead into battery pack lead before inserting battery charger plug into 120 volt standard household outlet.

After charging, disconnect battery charger plug from household outlet first, then disconnect charger lead from battery pack lead.

WARNING

Do not remove the battery pack from the handle panel for any reason other than replacement. When replacing the battery pack, refer to instructions in Maintenance section.

2. Before each use, check for proper drive clutch operation by performing the following before starting the engine:

   With the drive clutch control released, push mower forward. It should move freely. **Pull mower backward. It should move freely.**

   If it does not and the rear wheels tend to lock up, the clutch may not be releasing completely. Do not start the engine until corrections have been made. Check the control cable for severe bend, kinks and binding, or grass build-up in the pulley groove. Correct and adjust as required.

3. Attach spark plug wire to spark plug. Make certain the metal loop on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug. See figure 18.

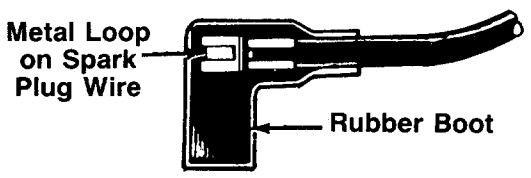
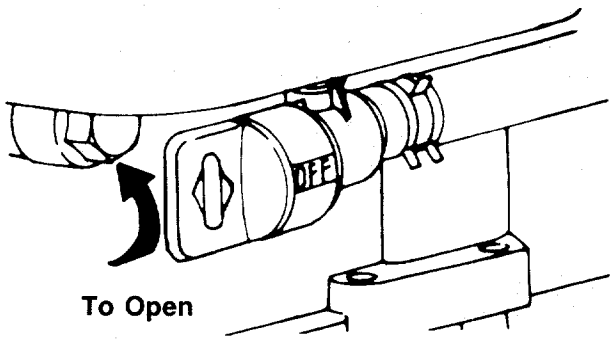


FIGURE 18.

4. The fuel shut-off valve is located beneath the fuel tank. The fuel shut-off valve should be in the open position. See figure 19. Open fuel shut-off valve if it is closed.



To Open

FIGURE 19.

TO START ENGINE AND ENGAGE BLADE

WARNING

When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Check the position of the drive clutch control cable. The plastic fitting must be assembled in the first adjustment position inside the housing, all the way to the right, as shown in figure 6.

1. Move the throttle control lever to CHOKE position.

NOTE

A warm engine may not require choking.

2. Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown in figure 20. Be certain the drive clutch handle is released.

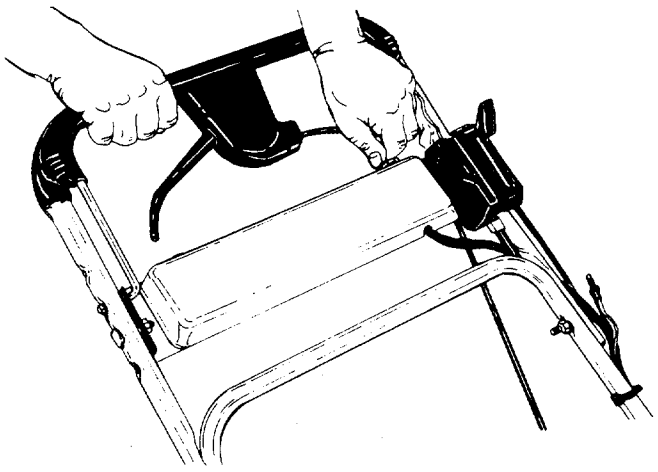


FIGURE 20.

3. Turn the ignition key to the right to start the engine. Release the key after engine starts.
4. After engine starts, move throttle control to FAST or desired engine speed. Move the throttle control at least halfway back, then forward to obtain FAST position.

NOTE

The engine on your unit is provided with an auxiliary recoil starter system. To start the engine using the auxiliary starter system, proceed as follows.

A. Depress the blade control handle, and hold it against the upper handle.

B. Grasp the recoil starter handle, slowly pull the rope out from the engine about two feet and hold rope in this position.

C. Step behind the handle into the operating position. With the blade control handle still depressed, pull recoil starter handle using a quick, firm motion. Repeat until engine starts. After engine starts, return rope slowly to the engine.

WARNING

Never operate your unit without either the side chute deflector or entire top discharge chute and catcher panel assembly in place.

TO STOP ENGINE AND BLADE

1. Release the blade control handle to stop the engine and blade.

WARNING

The blade continues to rotate for a few seconds after the engine is shut off.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

NOTE

If any problems are encountered, refer to the Trouble Shooting Guide on page 19.

USING YOUR ROTARY MOWER

WARNING

DO NOT operate mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.

For the best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

When using the side discharge mower, the best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.

IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS

WARNING

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

DRIVE CLUTCH CONTROL ADJUSTMENT

If the unit does not self-propel with the drive clutch control engaged, remove the plastic cap from beneath the drive clutch control housing. Move the plastic fitting on the control cable to the next adjustment position on the left. Reassemble the plastic cap and retest. See figure 21.

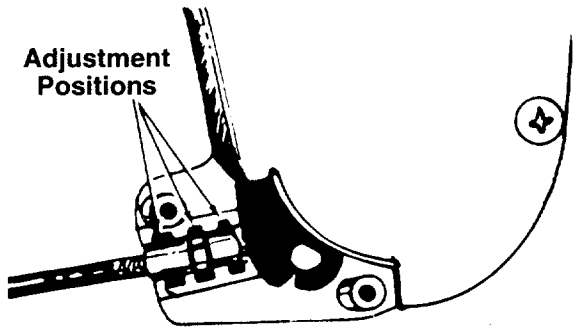


FIGURE 21.

CUTTING HEIGHT ADJUSTMENT

The height adjustment handle is located on the left side of the deck. The handle may be placed in one of nine cutting height positions. Push the handle to the left and then either forward to lower the cutting height or backward to raise the cutting height. See figure 22.

For rough or uneven lawns, move the height adjustment handle to a position which will give a higher cutting height.

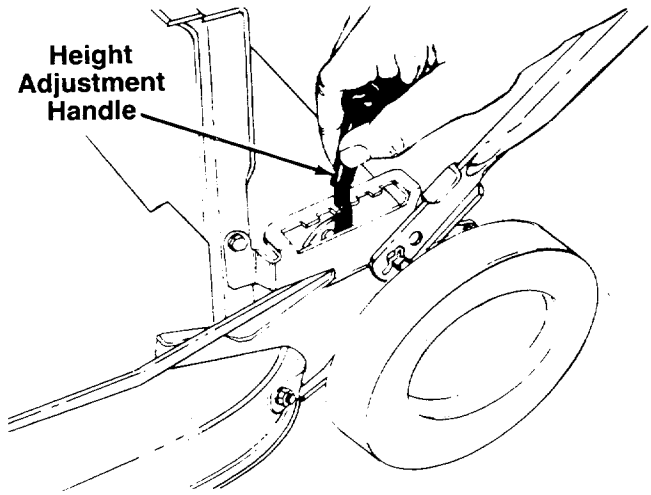


FIGURE 22.

THROTTLE

The throttle control wire assembly can be adjusted if necessary. Loosen the screw on the cable clamp shown in figure 5. Adjust as instructed in steps 1 and 4 of "Attaching the Throttle Control Cable" in Assembly Instructions.

CARBURETOR ADJUSTMENTS

WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load. Refer to the separate engine manual packed with your mower for carburetor adjustment information.

NOTE

A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean and attached to the carburetor before adjusting carburetor. Refer to the separate engine manual.

LUBRICATION

WARNING

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Control—Lubricate the pivot points on the blade control handle and the brake cable at least once a season with light oil. See figure 23. The blade control must operate freely in both directions.

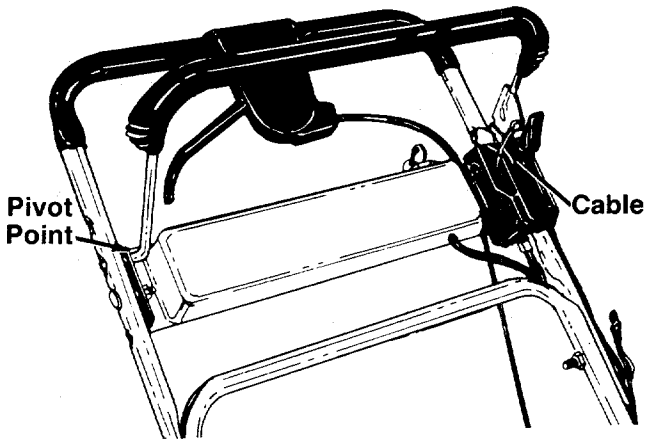


FIGURE 23.

Discharge Chute Door Mechanism—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Door must work freely.

Wheels—Mower may be provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

MAINTENANCE

WARNING

Be sure to disconnect and ground the spark plug wire before performing any repairs or maintenance.

NOTE

When tipping the unit, empty the fuel tank and keep engine spark plug side up.

TROUBLE SHOOTING

Refer to page 19 of this manual for trouble shooting information.

BATTERY PACK REPLACEMENT

Remove the battery pack from the handle panel for replacement only. Do not separate the batteries for any reason. Dispose of batteries properly.

WARNING

Batteries contain sulfuric acid which may cause burns. Do not short circuit or mutilate in any way. Do not put batteries in fire. They may burst or release toxic materials.

When replacing battery pack in handle panel, battery pack must be positioned with the positive terminal to the right hand side and the negative terminal to the left hand side of panel. See figure 24. Replacing the battery pack incorrectly will cause serious damage.

The positive lead on the wire harness has the smaller connector. Connect the positive lead to the positive side of the battery pack, then connect the negative side.

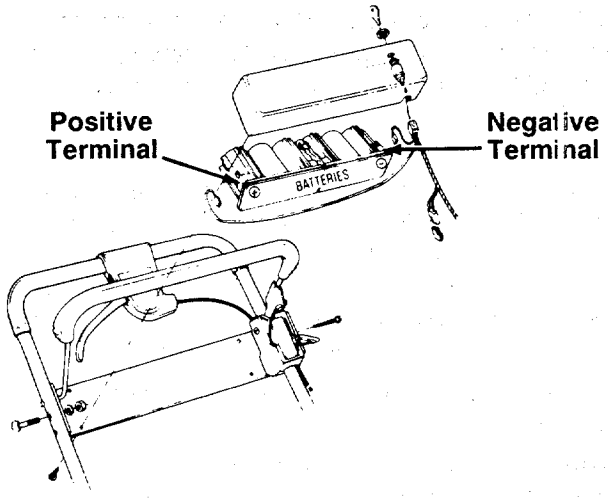


FIGURE 24.

IN-LINE FUSE

The unit is equipped with an in-line fuse. If unit fails to start, check the fuse in the wiring harness by turning the end of the fuse holder and pulling apart. See figure 25. Replace with standard automotive 7½ amp fuse.

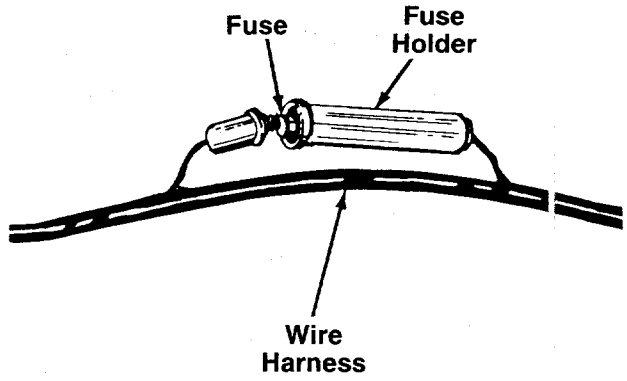


FIGURE 25.

CUTTING BLADE

When removing the cutting blade for sharpening or replacement, protect hands by using heavy gloves or a rag to grasp the cutting blade. Remove the bolt and blade bell washer which hold the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

CAUTION

Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft, the inner surface of the blade adapter and the center bolt with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

Center Bolt: 375 in. lb. min., 450 in. lb. max. If lacking torque wrench, tighten until the blade bell washer is flattened.

To insure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

DECK

The underside of mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt or other matter. If this debris is allowed to accumulate, it will invite rust and corrosion, and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower and scraping clean with a suitable tool (make certain the spark plug wire is disconnected).

ENGINE

Refer to the separate engine manual for all engine maintenance instructions.

Maintain **engine oil** as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service **air cleaner** every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. To service the air cleaner, refer to the separate engine manual packed with your unit.

The **spark plug** should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

Clean the engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation which is essential to engine performance and life. Be certain to remove all grass, dirt and combustible debris from muffler area.

STORAGE OF THE BATTERY

The battery must be stored with a full charge. A discharged battery will freeze.

IMPORTANT

All batteries discharge during storage.

Recharge battery every two months and before returning to service. Refer to charging instructions on page 12.

BELT REMOVAL AND REPLACEMENT

1. Disconnect the spark plug wire and ground it against the engine. Drain the fuel tank or place a piece of plastic beneath the cap to prevent gasoline leakage.
2. Remove the grass bag, discharge chute and catcher panel.
3. Remove the transmission belt cover by removing three bolts. See figure 26.
4. Tip the mower on its side, and block securely.

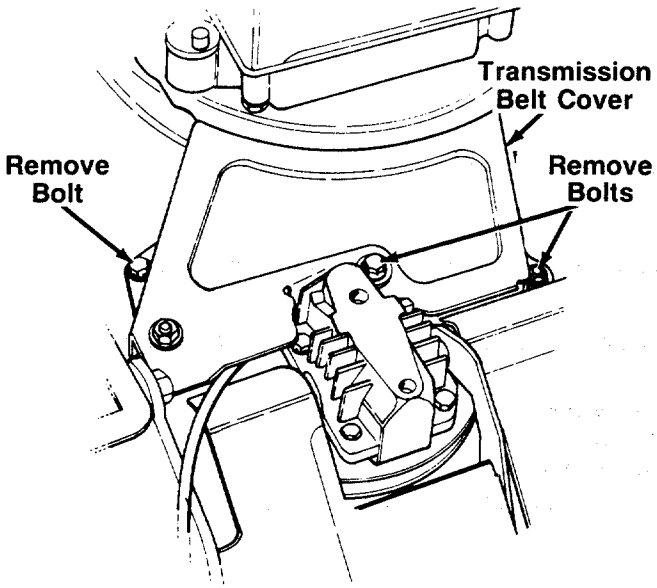


FIGURE 26.

5. Remove the center bolt which secures the blade to the crankshaft. See figure 27. Remove the blade, blade adapter and pulley half. Remove the belt.
6. Remove the inside belt guard by removing two self-tapping screws. A 3/8" wrench is required. See figure 27.

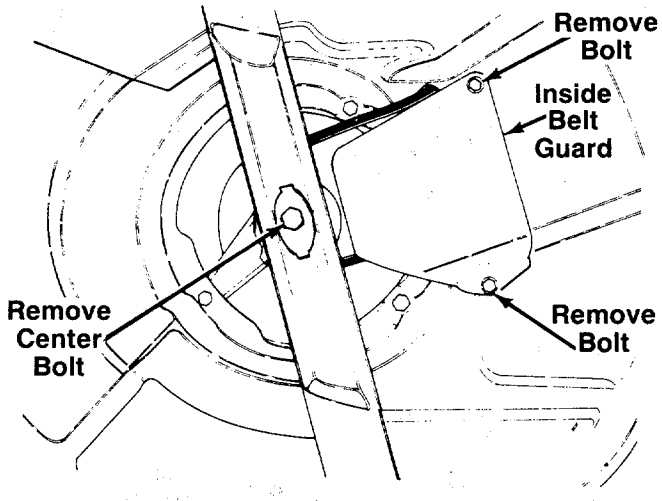


FIGURE 27.

7. Remove the belt from between the idler pulley and the belt guard on the idler pulley bracket. Refer to figure 29.
8. Remove the belt from the transmission pulley.
9. Assemble the new belt as follows.
   A. Push the idler pulley up out of the way as shown in figure 28.
   B. Slide the belt in from the rear of the deck and place it around the transmission pulley. See figure 28.
   C. Release the idler pulley so it falls down into position. Slide the belt in between the idler pulley and the belt guard on the idler pulley bracket as shown in figure 29.
   D. Grease the crankshaft. Place belt between the two pulley halves and reassemble the blade adapter and blade. Reassemble the inside belt guard.
   E. Reassemble the transmission belt cover, following instructions in step 3 in reverse order.

NOTE

When reassembling the transmission belt cover, be certain the belt guard on the transmission cover is approximately 1/8" away from the belt. Make certain to tighten all nuts and bolts securely. If plastic was placed under the gas cap, be certain to remove it.

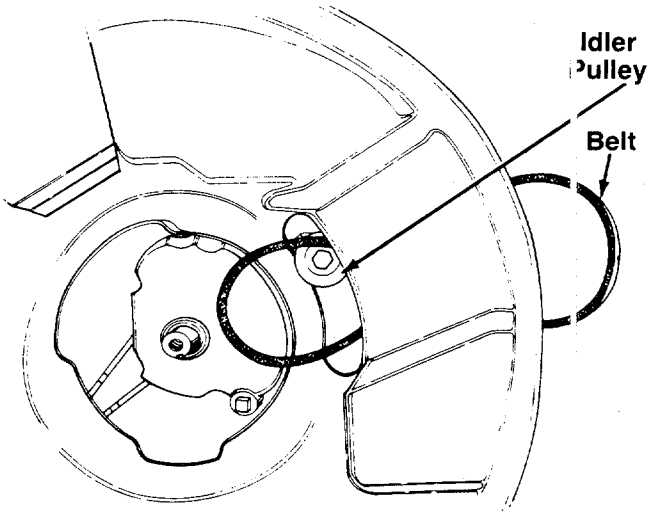


FIGURE 28.

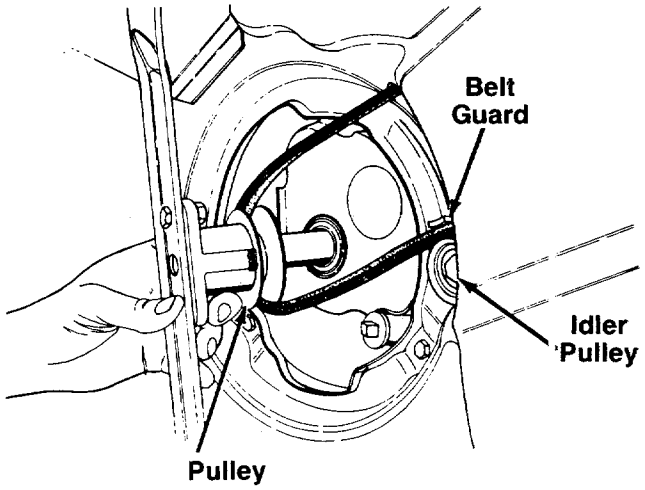


FIGURE 29.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Follow battery storage instructions on page 17.
5. Store mower in a dry, clean area.

NOTE

When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts.

NOTE

The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

GRASS CATCHER Model 077 is available as replacement equipment for the mower shown in this manual.

WARNING

To reduce the risk of injury, do not operate mower unless rear trailing shield and guard or entire grass catcher is in its proper place.

NOTE

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

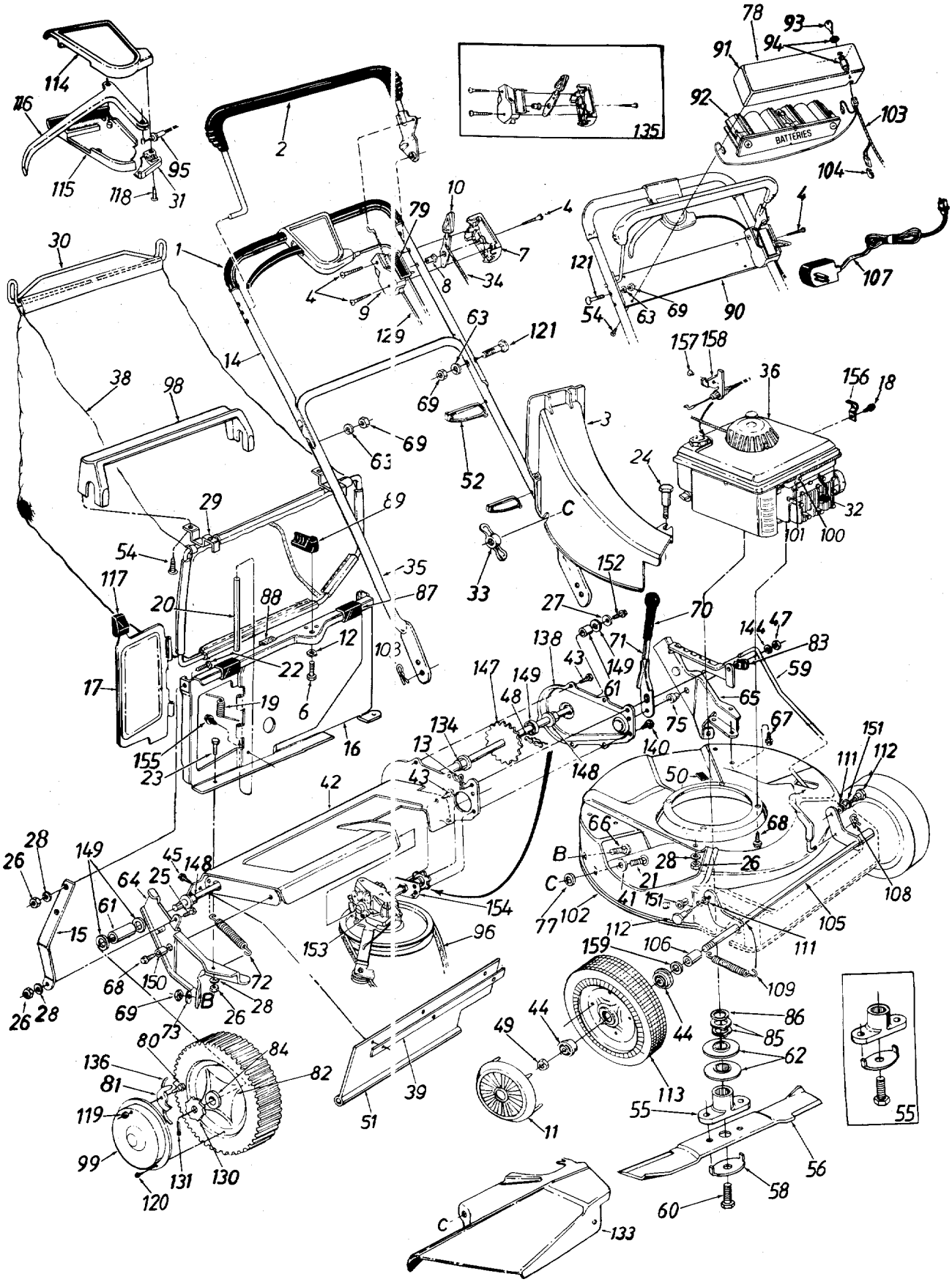
For replacement bags, use only factory authorized replacement bag No. 764-0212A (Black) or 764-0216A (Grey).

Trouble Shooting Guide

Trouble	Possible Cause(s)	Corrective Action
Engine fails to start	1. Blade control handle disengaged. 2. Spark plug wire disconnected. 3. Throttle control lever not in CHOKE position. 4. Fuel shut-off valve closed. 5. Fuel tank empty, or stale fuel. 6. Blocked fuel line. 7. Faulty spark plug. 8. Engine flooded.	1. Engage blade control handle. 2. Connect wire to spark plug. 3. Move throttle lever to CHOKE position. 4. Open fuel shut-off valve. 5. Fill tank with clean, fresh gasoline. 6. Clean fuel line. 7. Clean, adjust gap or replace. 8. Remove spark plug, dry the plug, and crank engine with plug removed and throttle in off position. Replace spark plug, connect wire and resume starting procedures.
Engine runs erratic	1. Unit running in CHOKE position. 2. Spark plug wire loose. 3. Blocked fuel line or stale fuel. 4. Vent in gas cap plugged. 5. Water or dirt in fuel system. 6. Dirty air cleaner. 7. Carburetor out of adjustment.	1. Move throttle lever to FAST position. 2. Connect and tighten spark plug wire. 3. Clean fuel line; fill tank with clean, fresh gasoline. 4. Clear vent. 5. Drain fuel tank. Refill with fresh fuel. 6. Clean air cleaner.† 7. Adjust carburetor.†
Engine overheats	1. Engine oil level low. 2. Air flow restricted. 3. Carburetor not adjusted properly.	1. Fill crankcase with proper oil. 2. Remove blower housing and clean.† 3. Adjust carburetor.†
Occasional skip (hesitates) at high speed	1. Carburetor idle speed too slow. 2. Spark plug gap too close. 3. Carburetor idle mixture adjustment improperly set.	1. Adjust carburetor.† 2. Adjust gap to .030″. 3. Adjust carburetor.†
Idles poorly	1. Spark plug fouled, faulty or gap too wide. 2. Carburetor improperly adjusted. 3. Dirty air cleaner.	1. Reset gap to .030″ or replace spark plug. 2. Adjust carburetor.† 3. Clean air cleaner.†
Excessive vibration	1. Cutting blade loose or unbalanced. 2. Bent cutting blade.	1. Tighten blade and adapter. Balance blade. 2. Replace blade.
Mower will not discharge grass	1. Engine speed too low. 2. Wet grass. 3. Excessively high grass.	1. Set throttle between 3/4 and full throttle. 2. Do not mow when grass is wet; wait until later to cut. 3. Mow once at a high cutting height, then mow again at desired height or make a narrower cutting swath (1/2 width).
Uneven cut	Dull blade.	Sharpen or replace blade.

†Refer to separate engine manual packed with your unit.
Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.

Model 176E



Model 176E

PARTS LIST FOR MODEL 176E
21″ ROTARY MOWER

REF. NO.	PART NO.	CODE	DESCRIPTION
1	720-0225		Foam Grip (2 Req'd.)
	~~718-0145~~		Grip
2	731-0609		Control Handle Ass'y.—L.H.
3	731-0733		Top Discharge Chute Ass'y.
4	710-0796		Truss Mach. Scr. #12 x 1.50″ Lg.
6	710-0875		Hex Wash. TT-Tap Scr. ¼-20 x .75″ Lg.
7	731-0817		Control Panel Half
8	731-0524		Control Disc Pin
9	731-0816		Clutch Panel Half
10	731-0528A	N	Throttle Control Lever Use 731-0977
11	††		Hub Cap
12	736-0271		Spring Wash. .32″ I.D.
13	714-0507		Cotter Pin 3/32″ Dia. x .75″*
14	749-0439A	N	Upper Handle—Painted
	749-0437A	N	Upper Handle—Chrome
15	16129		Panel Support Brkt.
16	17196A	N	Top Catcher Panel Ass'y.
17	17095		Top Discharge Door
18	710-0429		Hex B-Tap Scr. #10 x .38″
19	732-0483A	N	Torsion Spring
20	747-0514		Pivot Pin
21	710-0134		Carriage Bolt ¼-20 x .62″*
22	710-0225		Truss Mach. Scr. ¼-20 x ¾″ Lg.
23	710-0289		Hex Bolt ¼-20 x .50″ Lg.*
24	738-0704		Shoulder Bolt .312 Dia. x .18 Lg.—Special
25	710-0258		Hex Bolt ¼-20 x .62″ Lg.*
26	712-0287		Hex Nut ¼-20 Thd.*
27	736-0270		Bell-Wash. ¼″ I.D.
28	736-0329		L-Wash. ¼″ I.D.*
29	16702B	N	Front Grass Catcher Frame
30	747-0495		Grass Catcher Handle
31	731-0619A	N	S.P. Control Cover
32	735-0639		Spark Plug Insulator
33	712-0388		Wing Nut w/Washer
34	746-0672		Throttle Control Wire 58″
35	749-0504C	N	Lower Handle—Painted
	749-0505C	N	Lower Handle—Chrome
36	—		Engine
38	764-0212B	N	21″ Top Discharge Grass Bag—Black
	764-0216B	N	21″ Top Discharge Grass Bag—Grey
39	14835		Retaining Strip
41	736-0204		Fl-Wash. .344″ I.D. x .62″
42	17055B	638/N	Chain—Axle Ass'y.
43	710-0352		Hex B-Tap Scr. ¼″ x .38″ Lg.
44	741-0180		Flange Ball Bearing ½″ I.D.
45	710-0776A	N	Hex AB-Tap Scr. ¼ x .62″
47	712-0296		Hex Patch L-Nut 3/8-24 Thd.
48	713-0353		#48 Chain .500″ Pitch x 30 Links
49	712-0346		Hex L-Nut ½-20 Thd.
50	731-0564		Plug
51	731-0672A	N	Rear Flap 3.75″ x 17.30″ Lg.
52	726-0240		Cable Tie
54	710-0969		Hex AB-Tap Scr. 1.0″ Lg.
55	753-0463		Blade Adapter Kit
56	742-0306		21″ Blade
58	736-0415		Blade Bell-Wash. .44″ I.D. x 2.38″
59	747-0510		Height Adj. Rod 19.42″ Lg.
60	710-0757		Hex Bolt 7/16-20 x 1.5″ Lg. (Grade 5)
61	748-0190		Spacer .513″ I.D. x .703″ O.D. x .69″ Lg.
62	756-0502		Serrated Pulley Half
63	736-0119		L-Wash. 5/16″ I.D.*
64	16136		R.H. Handle Wheel Brkt. Ass'y.
65	16137		L.H. Handle Wheel Brkt. Ass'y.
66	710-0260		Carriage Bolt 5/16-18 x .62″*
67	710-0603		Hex Wash. Hd. B-Tap Scr. 5/16-18
68	710-0654A	N	Hex Wash. Hd. TT-Tap Scr. 3/8-16
69	712-0267		Hex Nut 5/16-18 Thd.*
70	720-0223		Grip
71	732-0473B	N	Height Adj. Lever
72	732-0481		Extension Spring .50″ O.D. x 3.80″ Lg.
73	736-0242		Bell-Wash. 5/16″ I.D.
75	750-0624		Shld. Spacer .500″ Dia.
77	726-0233		Bolt Retainer ¼ x .50″ O.D.
78	777-6575		Instruction Label
79	777-5812		Control Label
80	738-0137		Shld. Scr. .342″ Dia. x .268
81	748-0188B	N	Pawl
82	**		Wheel Ass'y. Comp.
83	726-0175		Clamp
84	**		Bearing ½″ I.D.
85	736-0408		Wave Washer 1.005″ I.D.
86	736-0409		Serrated Washer 1.0″ I.D.
87	731-0883		Panel Clip
88	722-0139		Foam Strip 1″ Lg.
89	720-0224		Grass Catcher Locking Knob
90	16542A	N	Lower Battery Tray
91	731-0891		Upper Battery Tray
92	725-1276		12 Volt Battery
93	725-0201		Key
94	725-0873		Key Switch
95	746-0650		S.P. Cable x 50″ Lg.
96	754-0343		"V"-Belt
98	731-0801		Bag Handle (Black)
	731-0802		Bag Handle (Gray)
99	10647		Rear Hub Cap
100	710-0436		Hex B-Tap Scr. #10 x .62″
101	751-0463		Cable Clamp
102	17075	638	21″ Deck Ass'y.
103	725-1283A	N	Wire Harness
104	725-1206		Plug
105	10662B	N	Front Axle Ass'y.
106	711-0313		Sleeve .526″ I.D. x .690″ O.D. x .880″ Lg.
107	725-0727		Battery Charger
108	714-0104		Intern. Cotter Pin 5/16″ Dia.

Model 176E

PARTS LIST FOR MODEL 176E
21" ROTARY MOWER (CONTINUED)

REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
109	732-0482		Extension Spring .50" O.D. x 3.20" Lg.	136	10622B	N	Spring—Nylon
				138	17053A	N	Chain Cover
111	736-0221		Intern. L-Wash. 3/8 I.D.	140	710-0599		Hex Wash. S-Tap Scr. ¼-20 x .50" Lg.
112	738-0705		Shld. Bolt .575" Dia. x 42				
113	**		Wheel Ass'y. Comp.	144	736-0300		Fl-Wash. .385" I.D. x .87"
114	731-0617A	N	Self-Propelled Control Cover	147	738-0719A	N	Rear Shaft Ass'y. 21.94" Lg.
115	731-0618A	N	Self-Propelled Control Cover	148	741-0324		Hex Flange Bearing .506" I.D. Plastic
116	731-0620		Control Lever				
117	720-0190		Door Grip	149	736-0160		Fl-Wash. .531" I.D. x .930"
118	710-0841		Fl-"C"-Sunk Hd. Tap Scr. #10 x .75" Lg.	150	750-0736		Spacer .383" I.D. x .503 O.D.
				151	741-0491		Flanged Nyliner Brg.
119	712-0324		Hex Ins. L-Nut ¼-20 Thd.	152	710-0751		Hex Bolt ¼-20 x .62" Lg. (Grade 5)
120	710-0748		Pan Hd. Tap Scr. #12 x .5" Lg.				
121	710-0671		Curved Carr. Bolt 5/16-18 x 1.38" Lg.	153	717-0417		Transmission Comp. (See Breakdown)
129	746-0480A	N	Control Cable 46" Lg.	154	16500		Hex Bearing Cup
130	748-0318		Ratchet Wheel 1.62" O D.	155	710-0429		Hex B-Tap Scr. #10 x .38
131	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	156	12894A	N	Cable Clamp
133	731-0886		Side Chute Deflector Ass'y.	157	728-0171		Pop Rivet .156" Dia.
134	741-0522		Hex Flange Bearing	158	14924		Cable Bracket
135	753-0430		Kit—Control Housing Comp.	159	736-0108		Fl-Wash. .51" I.D. x .75" O.D.

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

CODE: N notates a **new part** (not previously existing). A three digit number is the **color code** (use if color or finish is important when ordering parts). See chart below. [i.e., (part no.)-638 for MTD Red Finish].

NOTE: The engine is not under warranty by the mower manufacturer...If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

Color Codes

460—Green Flake	630—Blue
483—Charcoal Grey	635—Grey
498—Yellow	636—White
499—Beige	637—Black
606—Orange	638—Red
629—Silver Flake	640—Green

**WHEEL CHART

Size	Tread Type	Part No.	Bearings
7 x 1.75"	"T" Tread	734-1264	741-0180 Ball Brg. ½" I.D. (2 Req'd.)
8 x 1.75"	"T" Tread	734-1412	741-0180 Ball Brg. ½" I.D. (2 Req'd.)

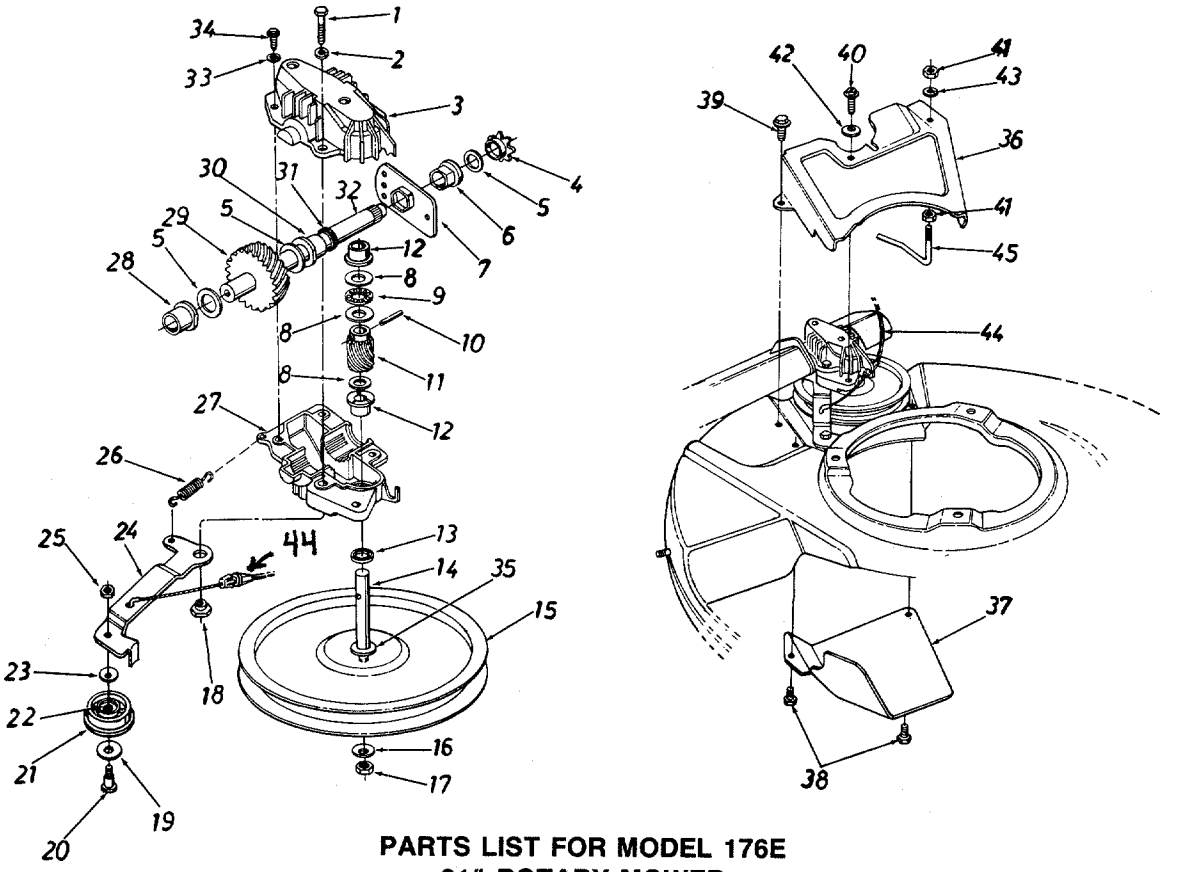
††HUB CAP CHART

Color	Part No.
Red	731-0124A
Orange	731-0254A
Black	731-0354A
Gray	731-0355A

NOTE

Specifications subject to change without notice or obligation.

Model 176E



PARTS LIST FOR MODEL 176E
21″ ROTARY MOWER

REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
1	710-0106		Hex Bolt ¼-20 x 1.25″ Lg.*	22	741-0482		Needle Brg. .375″ x .31″†
2	736-0329		L-Wash. ¼″ I.D.*	23	736-0270		Bell-Wash. .265″ I.D. x .75″†
3	717-0418A	N	Upper Hsg. Half	24	17052A	N	Idler Brk't. Ass'y.†
4	713-0400		#48 Sprocket 7 Tooth x ½ Pitch	25	712-0138		Hex Patch L-Nut ¼-28 Thd.†
				26	732-0357		Extension Spring 1.12″ Lg.†
5	736-0336		Fl-Wash. 5/8″ I.D. x .030	27	717-0419A	N	Lower Hsg. Half
6	741-0413		Hex Flange Brg. .631″ I.D.	28	741-0415		Flange Bearing .566 Dia.
7	16500		Hex Bearing Cup	29	717-0422		33 Tooth Helical Gear
8	736-0314		Thrust Wash. .382″ I.D. x .70″ O.D.	30	741-0414		Flange Bearing .629 Dia.
				31	721-0213		Oil Seal .625 Dia.
9	741-0479		Thrust Bearing .375″ I.D. x .812″ O.D.	32	738-0607		Gear Sprocket Shaft
				33	736-0722		L-Wash. #10 I.D.
10	715-0152		Spring Pin Spir. 1/8″ x .62″ Heavy	34	710-0436		Hex B-Tap Scr. #10 x .62″
				35	736-0410		Hex Washer .26″ x .88″†
11	717-0420		11 Tooth Helical Gear	36	17058		Transmission Belt Guard†
12	748-0208A	N	Flange Bearing	37	17064		Belt Cover
13	721-0212		Oil Seal	38	710-0352		Hex B-Tap Scr. ¼ x .38″ Lg.†
14	738-0708A	N	Pulley—Transmission Shaft	39	710-0599		Hex AB-Tap Scr. ¼ x .50″ Lg.†
15	756-0330A	N	Fl-Pulley 5.06″ I.D.†				
16	736-0270		Bell-Wash. .265″ I.D. x .75″†	40	710-0896		Hex B-Tap Scr. ¼ x .62″ Lg.
17	712-0351		Hex Nut ¼-28 L.H. Thd.†	41	712-0287		Hex Nut ¼-20 Thd.*†
18	738-0440		Shld. Spacer .375″ Dia. x .170†	42	736-0270		Bell-Wash. .265″ I.D. x .75″†
				43	736-0329		L-Wash. ¼″ I.D.*†
19	736-0344		Fl-Wash. .390″ I.D. x 1.0″†	44	746-0650		S.P. Cable—50″ Lg.† BLK.
20	738-0691		Shld. Bolt .375″ Dia. x .40″†	45	747-0549		S.P. Belt Guard†
21	756-0447		Fl-Idler Plastic 1.50″ Dia.†	—	717-0417A	N	Transmission Comp.

†Not Part of Transmission Complete

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline,** Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	**BIRMINGHAM**	
Auto Electric & Carburetor Co.	2625 4th Ave. S. Box 2466	35233
ARKANSAS	**NORTH LITTLE ROCK**	
Sutton's Lawn Mower Shop	5301 Roundtop Drive Box 368, Rt. 4	72117
CALIFORNIA	**PORTERVILLE**	
Billious	75 North D Street	93257
COLORADO	**DENVER**	
Spitzer Industrial Products Co.	6601 N. Washington St.	80229
FLORIDA	**JACKSONVILLE**	
Radco Distributors	4909 Victor St. Box 5459	32207
	HIALEAH	
Small Eng. Dist.	7995 W. 26th Court	33016
GEORGIA	**EAST POINT**	
East Point Cycle & Key Inc.	2834 Church St.	30344
ILLINOIS	**LYONS**	
Keen Edge Co.	8615 Ogden Ave.	60534
INDIANA	**ELKHART**	
Parts & Sales Inc.	2101 Industrial Pkwy. Box 277	46516
IOWA	**DUBUQUE**	
Power Lawn & Garden Equip.	2551 J.F. Kennedy	52001
LOUISIANA	**LAFAYETTE**	
Jourdan Engine Co.	214 W. Vermillion St. Box 3503	70501
MARYLAND	**TAKOMA PARK**	
Center Supply Co.	6867 New Hampshire Ave.	20912
MASSACHUSETTS	**SPRINGFIELD**	
Morton B. Collins Co.	300 Birnie Ave.	01107
MICHIGAN	**MOUNT CLEMENS**	
Power Equipment Dist.	340 Hubbard	48043
MINNESOTA	**PLYMOUTH**	
Hance Distributing Inc.	12795 16th Ave. North	55441
MISSOURI	**EARTH CITY**	
Oscar Wilson Engine & Parts	4159 Shoreline Dr.	63045
	KANSAS CITY	
Automotive Equip. Service	3117 Holmes St.	64109
NEW JERSEY	**ALLOWAY**	
Piersons	Canal St., Box 494	08001
NEW YORK	**CARTHAGE**	
Gamble Dist., Inc.	West End Ave. Box 389	13619
NORTH CAROLINA	**GREENSBORO**	
Dixie Sales Company	335 N. Green Box 1408	27402
OHIO	**CARROLL**	
Stebe's Mid-State Mower Supply	Box 366, 71 High St.	43112
	CLEVELAND	
Bleckrie, Inc.	7900 Lorain Ave.	44102
	WADSWORTH	
National Central	687 Seville Rd.	44281
	YOUNGSTOWN	
Burton Supply Co.	1301 Logan Ave. Box 929	44501
PENNSYLVANIA	**HARRISBURG**	
EECO Inc.	4021 N. 6th St.	17110
	WILLOW GROVE	
Thompson Rubber Co.	850 Davisville Rd.	19090
	PITTSBURGH	
Bluemont Co.	11101 Frankstown Rd.	15235
	PUNXSUTAWNEY	
Frank Roberts & Sons	R.D. 2	15767
	SCRANTON	
Scranton Auto Ignition Co.	1133-35 Wyoming Ave.	18509
TENNESSEE	**KNOXVILLE**	
Ace Distributors	2103 Magnolia	37917
	MEMPHIS	
American Sales & Service, Inc.	3035-43 Bellbrook	38116
TEXAS	**DALLAS**	
Marr Brothers, Inc.	423 E. Jefferson	75203
	SAN ANTONIO	
Engine House Inc.	4918 Golden Quail	78249
UTAH	**SALT LAKE CITY**	
Powered Products	1661 N. Beck St.	84116
VIRGINIA	**ASHLAND**	
RBI Corp.	101 Cedar Ridge Dr.	23005
WASHINGTON	**SEATTLE**	
Equip. Northwest	1410 14th Ave.	98122
WISCONSIN	**MILWAUKEE**	
Wisconsin Magneto Inc.	4727 N. Teutonia St.	53209
PUERTO RICO	**AGUADILLA**	
CIE & Associates, Inc.	Box 427 Ramey Station	00604

WARRANTY PARTS AND SERVICE POLICY (0588)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number, Serial Number and/or Data Code** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of Failure.**
4. **Nature of Failure.**